

PATENT 1794-0148P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:

Kanna AOKI et al.

Conf.:

6134

Appl. No.:

10/058,337

Group:

Filed:

January 30, 2002

Examiner:

For:

THREE-DIMENSIONAL PHOTONIC CRYSTAL AND PROCESS FOR PRODUCTION THEREOF AS WELL

AS PROBE USED THEREFORE

INFORMATION DISCLOSURE STATEMENT
(SUBMISSION AFTER FILING OF AN APPLICATION
BUT BEFORE FINAL REJECTION OR NOTICE OF ALLOWANCE
OR CONCURRENTLY WITH A RULE 53(d) CPA APPLICATION
OR WITH A RULE 1.114 RCE APPLICATION)

Assistant Commissioner for Patents Washington, DC 20231

April 12, 2002

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on the PTO-1449(s), attached hereto.

II. COPIES (check at least one box)

- a. Submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- b. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should already be in the PTO file. If copies are needed, please contact the undersigned.

Appl. No. 10/058,337

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

a. DOCUMENTS IN THE ENGLISH LANGUAGE

The attached patents, publications, or other information in the English language do not require a statement of relevancy.

b. DOCUMENTS NOT IN THE ENGLISH LANGUAGE

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

The following additional information is provided for the Examiner's consideration.

FEES

IV.			IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b): k one box)						
	a.	_	within three months of the filing date of a national application (37 C.F.R. § 1.97(b)(1)). No fee or statement is required. (This section is not to be used with RCE's and CPA's).						
	b.		within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R.§ 1.97(b)(2)). No fee or statement is required.						
	C.		concurrently with the filing of a Continued Prosecution Application under 37 C.F.R. § 1.53(d) or concurrently with the filing of a Request for Continued Examination under § 1.114 (37 C.F.R. § 1.97(b)(4)). No fee or statement is required.						
	d.		before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or statement is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the statement under 37 C.F.R. § 1.97(e) below, or, if no statement has been made, charge our deposit account in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).						
J.			IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(c): k one box)						
	before the mailing date of a Final Office Action un C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c)(1)) or befo mailing date of a Notice of Allowance under 37 § 1.311 (See 37 C.F.R. § 1.97(c)(2)).								
	a.		No statement; therefore, a fee in the amount of \$\frac{180.00}{0}\$ as required by 37 C.F.R. § 1.17(p).						
	b.		See the statement below. No fee is required.						

STATEMENT UNDER 37 C.F.R. § 1.97(e) (check only one box) VI. The undersigned hereby states that each item of information contained in the IDS was first cited in any communication from a foreign Office in a counterpart application not more than three months prior to the filing of this IDS; or no item of information contained in the IDS was b. cited in a communication from a foreign Patent Office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the IDS. Some of the items of information were cited in a c. communication from a foreign Patent Office. As to this information, the undersigned states that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby states that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application and, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement. VII. PAYMENT OF FEES (check one box) A check in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p) is enclosed for the above-identified fee. П Please charge Deposit Account No. 02-2448 in the amount required by 37 C.F.R. § 1.17(p) for the aboveindicated fee. A triplicate copy of this paper is attached.

No fee is required.

 \boxtimes

Appl. No. 10/058,337

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 02-2448.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By July 441,458

Joe McKinney Muncy, #32,334

P.O. Box 747

Falls Church, VA 22040-0747

(703) 205-8000

Enclosures:

KM/ndb 1794-0148P

□ Documents

☐ Foreign Search Report

☐ Fee

□ Other:

(Rev. 10/31/01

.) Sheet	1 of	1 (4	1/12/02)				
Form PT	D-1449	1794-0148P		10/058,337							
I	NFORMATION DISCLOSURE (IN AN APPLICATION		APPLICANT Kanna AOKI et al.								
	(Use several sheets if necess	E S	January 30, 2002								
U.S. PATEME DOCUMENTS											
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	PILIN IP APPI	G DATE ROPRIATE				
				-							
				 							
	FOI	 REIGN PATENT	DOCUMENTS	<u>l</u>							
	DOCUMENT NUMBER	DATE	COUNTRY		CLASS	YES	МО				
	/										
	Ja Hal)										
 	19° KJ1"										
OMILED.	200000000000000000000000000000000000000										
journal, seri	DOCUMENTS (Include Name of the authorial, symposium, catalog, etc.) date, page(s), vo.	or (in CAPITAL LETTERS), ti lume-issue number(s), publ	tle of the article (when approp isher, city and/or country where	riate), title published.	of the item	i (book, ma	gasine,				
	"A three-dimensional photonic crystal operating at infrared wavelengths" Nature, Vol 394, pages 251-253, July 16, 1998.										
	"Three-dimensional photonic crystal with a stop band from 1.35 to 1.95 µm" OPTICS LETTERS, Vol. 24, No. 1, pages 49-51, January 1, 1999										
	PHYSICAL REVIEW B, Third Series, Vol. 59, No. 24, R15 579 - R15 582, June 15, 1999 II										

"Fabrication of photonic band-gap crystals", J. Vac. Sci.-Technol. B, Vol. 13(6), pages 2696-2700, Nov/Dec 1995

"Fabrication of submicrometre 3D periodic structures composed of $\rm Si/SiO_2"$, ELECTRONICS LETTERS, Vol. 33, No. 14, July 3, 1997

"Development of One Period of a Three-Dimensional Photonic Crystal in the 5-10 µm Wavelength Region by Wafer Fusion and Laser Beam Diffraction Pattern Observation Techniques" Jpn. J. Appl. Phys., Vol. 37, pages L1052-L1054, September 15, 1998

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1794-0148P

objected 3 1

Hen 2

KM/ndb